MEMO Number TSR03
DATE: 2022-11-16
TO: Dr. LaBerge
FROM: UHDRTZ
SUBJECT: Progress report for November

1 INTRODUCTION

This memo provides the progress report required by Capstone. This report covers the period November 1 - November 21.

2 COMPLETED WORK

2.1 Completed and presented SRR

2.2 Completed SOW

2.3 Started to work on Start-on-Boot service

2.3.1 Experimented with Linux task schedulers (cron, systemd)

2.3.2 Investigated dependencies of our program that must be running before we start it

3 WORK EXPECTED DURING NEXT PERIOD

3.1 Complete Start-on-Boot service

3.2 Work on remote SSH capabilities

3.3 Look into 4K output

3.3.1 Identify bottlenecks within the system

4 ISSUES FROM PREVIOUS REPORTS

4.1 **Current Issues**

4.1.1 None

4.2 **Older Issues**

4.2.1 None

The problem given includes the following information:
5+2(t-1) for 5 years with 5% interest compounded yearly.
5+2(t-1) is the amount loaned per year with t being the current year

Our solution is as follows.
t = year
p = selling price per unit
r = interest rate per interval

$$p\sum_{t=1}^{5}\frac{100k+20k(t-1)}{(1+r)^t}=25M+\sum_{t=1}^{5}\frac{5M+2M(t-1)}{(1+r)^t}$$

$$p*5.977*10^5=6.312*10^7$$

$$p=105.61$$

The selling price would have to be $105.61